Fig. 1

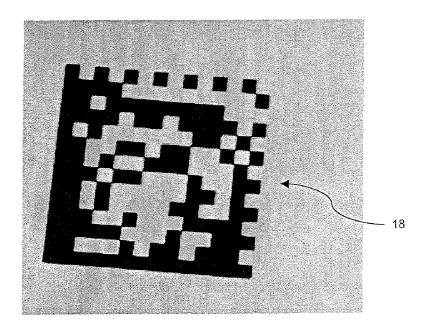


Fig. 2

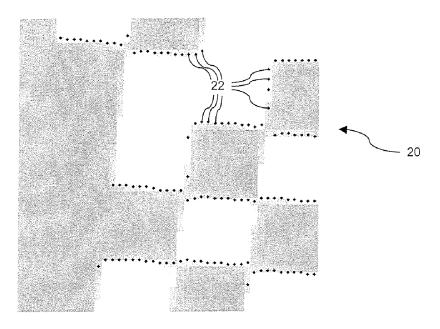
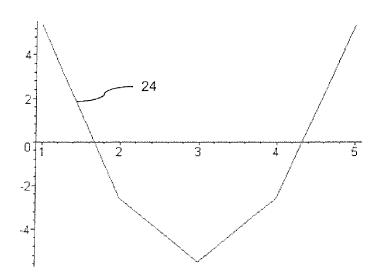


Fig. 3

NBD	1	2	3	4	5	6
1			3,1			
2			3,2			
3			3,3			
4			3,4			
5			3,5			
6						

NBD	1	2	3	4	5	6
1 - 19-69						
2			3,2			
3			3,3			
4			3,4			
5			3,5			
6			3,6			

Fig. 4



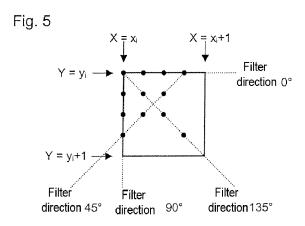


Fig. 6

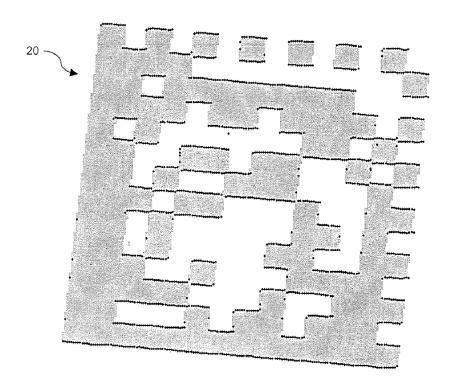


Fig. 7

Filter direction	Edge direction	X coordinate of the contour point 1	Y coordinate of the contour point 1
0°	90°	$x_i + \Delta \delta$	Уi
90°	0°	Xi	$y_i + \Delta \delta$
45°	135°	$x_i + 0.75 - \Delta\delta$	y _i + Δδ
135°	45°	$x_i + \Delta \delta$	$y_i + \Delta \delta$

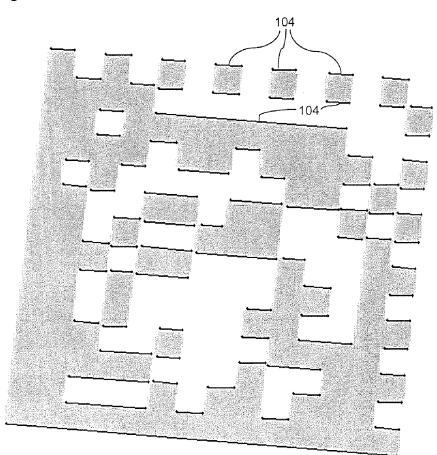
Fig. 8

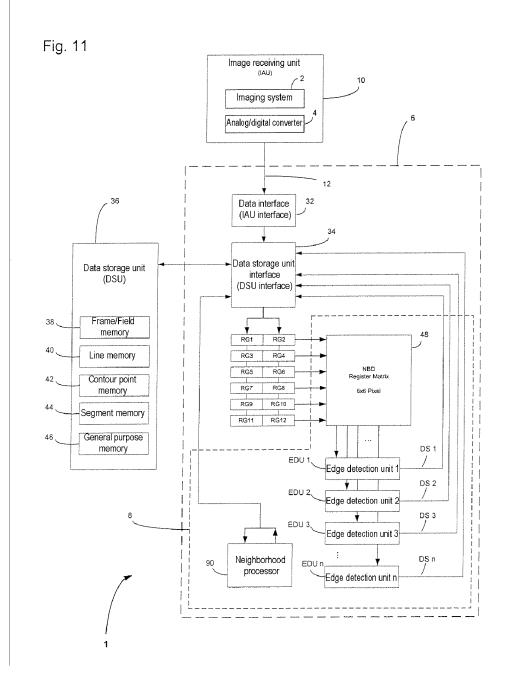


Fig. 9

00	18	76	ВО	В6	00	01	00	40	1E	AF	00	88	80	02	00
80	18	ΑE	00	1 F	80	03	00	80	1E	ΑE	4 F	СВ	80	04	00
81	CC	E2	C0	57	80	62	00	81	D4	E2	80	78	C0	5E	04
81	D4	E3	00	34	80	5E	04	81	D2	E3	80	2F	40	5E	00
D8	22	C9	D0	D2	12	В7	00	D8	22	CB	10	26	92	C5	00
00	00	00	00	00	00	00	00								

Fig. 10





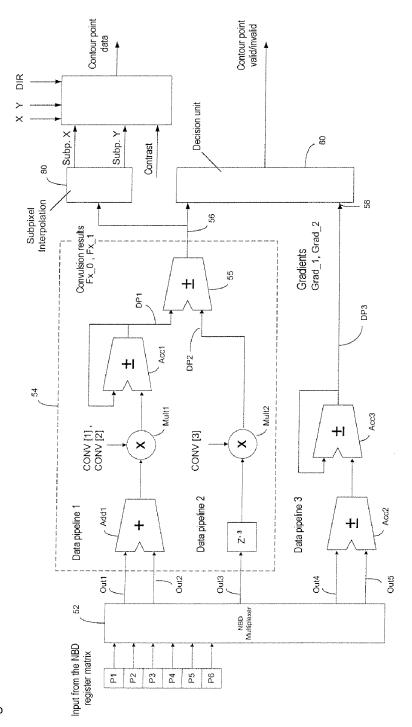


Fig. 12

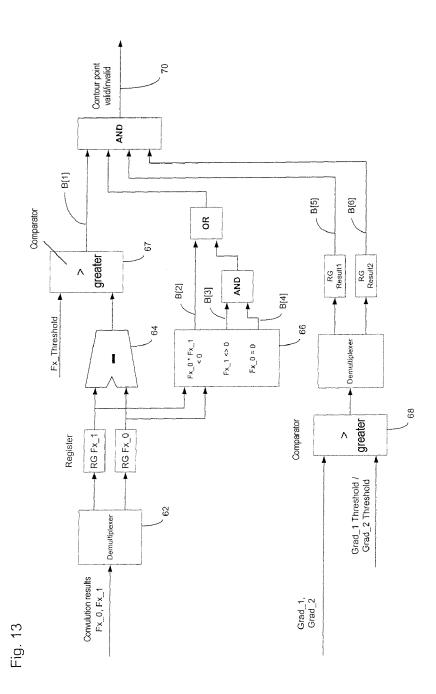


Fig. 14

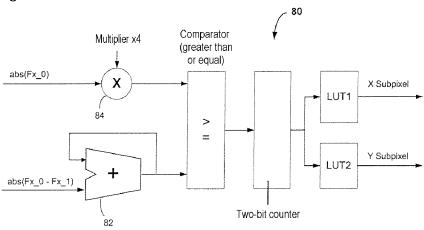


Fig. 15

Fig. 16

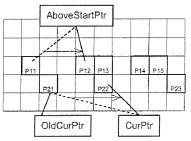
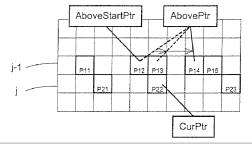
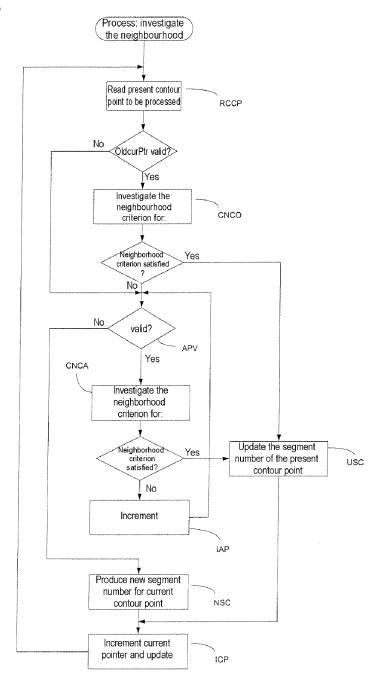


Fig. 17







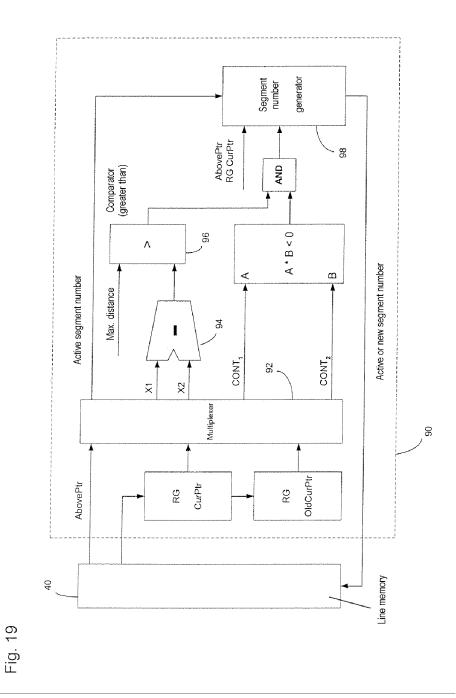


Fig. 20

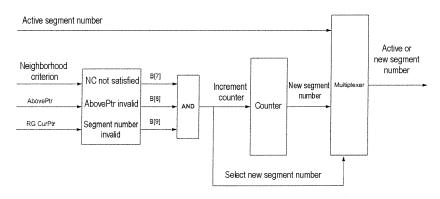


Fig. 21

			Data pi	oeline DP1	Data pipeline DP2			
Clock	Out1	Out2	Add1	Mult1	Acc1	Out3	Z-3	Mult2
C	P2	P4	1			P3	_	
1	P1	P5	P2+P4		411	P3	1	
2	РЗ	P5	P1+P5	(P2+P4) CONV[2]		P4	1	
3	P2	P6	P3+P5	(P1+P5) CONV[1]		P4	P3	
4		1	P2+P6	(P3+P5) CONV[2]	(P2+P4) CONV[2] + (P1+P5) CONV[1]		P3	P3 CONV[3]
5				(P2+P6) CONV[1]			P4	P3 CONV[3]
6					(P3+P5) CONV[2] + (P2+P6) CONV[1]		P4	P4 CONV[3]
7								P4 CONV[3]
8								
9								
10		T	T					

Data p	ipeline (DP3		***************************************		Decision unit	Contour point	
Clock	Acc2	Out4	Out5	Acc3	Acc4			
		P1	P2					
1	1	P5	P6	P1+P2				
2	2	P3	P4	P5+P6	P1+P2			
3	3	P5	P6	P3-P4	(P1+P2)-(P5+P6)			
4	1			P5+P6	P3-P4	(P1+P2) - (P5+P	6) > Grad_1 Threshold?	
5	GPx_0				P3-P4	(P3-P4)	> Grad_2 Threshold?	
6	3							
7	GPx_1							
8						GPx_1 - GPx_0		
9						GPx_1 - GPx_0	> Fx_Threshold?	
10								Valid or Invalid

Fig. 22

